

WHAT IS CLAIMED IS:

1. A coded data transfer control method which transfers coded data to a decoding device by every access unit, which is a unit of access in reproduction, and controls transfer operations such that the timings of said transfer operations are appropriate to display timings respectively set for the access units, the method comprising the processes of:

10 determining a timing at which a transfer operation is to be completed when a predetermined access unit is continuously transferred after the predetermined access unit is to be transferred; and

15 repeatedly transferring the predetermined access unit to the decoding device if the determined timing is before a timing at which a transfer operation corresponding to the display timing set for a subsequent access unit is to be started.

2. A coded data transfer control method which transfers coded data to a decoding device by every access unit, which is a unit of access in reproduction, and controls transfer operations such that the timings of said transfer operations are appropriate to display timings respectively set for the access units, the method comprising the processes of:

15 determining a timing at which a transfer operation is to be completed when a predetermined access unit is continuously transferred after the predetermined access unit is to be transferred; and

25 repeatedly transferring the predetermined access unit to the decoding device if the determined timing is before the display timing set for a subsequent access unit.

3. The coded data transfer control method according to claim 1,
wherein said process of repeatedly transferring the predetermined
access unit includes a process of reading an access unit to be
transferred from a storage device in which the coded data is stored, and
5 transfers the access unit to the decoding device.

4. The coded data transfer control method according to claim 3,
wherein said process of repeatedly transferring the predetermined
access unit includes a process of selectively determining the access unit
10 to be transferred on the basis of auxiliary information including
recording position information of the access unit in the storage device.

5. The coded data transfer control method according to claim 4,
wherein, when a reproduction command for a predetermined
15 reproduction condition is received, said process of repeatedly
transferring the predetermined access unit transfers the access unit in
form of a reproduction transport stream with control information.

6. The coded data transfer control method according to claim 5,
20 wherein said process of repeatedly transferring the predetermined
access unit includes a process of adding the control information to the
reproduction transport stream, wherein the control information
includes time reference information of a program included in the
transport stream and reproduction time information for regulating time
25 at which the access unit to be reproduced.

7. A storage and reproduction system which performs a storage

process and a reproduction process of a transport stream on which coded data is multiplexed, the system comprising:

 a storage device for storing coded data;

 a timing determining device for determining a timing at which a transfer operation is to be completed when a predetermined access unit is continuously transferred after the predetermined access unit is to be transferred; and

 a transferring device for repeatedly transferring the predetermined access unit to a decoding device if the determined timing is before a timing at which a transfer operation corresponding to the display timing set for a subsequent access unit is to be started,

 wherein said transferring device comprises:

 an access unit determining device for determining the access unit to be transferred on the basis of auxiliary information including recording position information of the access unit in the storage device;

 a reading device for reading an access unit to be transferred from the storage device in which the coded data is stored; and

 a generating device for generating a reproduction transport stream including a plurality of the read access unit with control information.

8. The storage and reproduction system according to claim 7, wherein said transferring device further comprises an adding device for adding the control information to the reproduction transport stream, wherein the control information includes time reference information of a program included in the transport stream and reproduction time information for regulating time at which the access unit to be

reproduced.